

ABSTRACTIMAGE PROCESSING APPARATUS

Customer processing apparatus 2, 4 are connected to a
5 service apparatus 6 via the Internet 8. Service
apparatus 6 sends instructions to the customer processing
apparatus to print or display a calibration pattern.
Images of a subject object 210 on the calibration pattern
are recorded at different positions and orientations and
the image data is returned from the customer processing
apparatus 2, 4 to the service apparatus 6. The service
apparatus processes the image data based on stored data
defining the calibration pattern to calculate the image
recording positions and orientations and to generate a
10 3D computer model of the subject object. The 3D computer
model is accessed by a third party apparatus which
displays an image of the 3D computer model. To ensure
that the user at customer apparatus 2, 4 can control the
first image displayed at the third party apparatus, the
15 user is informed how to orientate the subject object 210
relative to the calibration pattern, and processing
apparatus 6 generates the 3D computer model relative to
the calibration pattern and then defines a viewing camera
relative to the calibration pattern to view the part of
20 the subject object 210 facing in the predetermined
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TRANSMITTER SELECTION

direction, the first image displayed at the third party apparatus being generated using the defined viewing camera. Alternatively, processing apparatus 6 generates the 3D computer model relative to the calibration pattern and relative to a default viewing camera having a predetermined position and viewing direction. As a further alternative, processing apparatus 6 selects for display at the third-party apparatus the input image received from the user at customer apparatus 2, 4 recorded with the camera viewing axis closest to the predetermined direction in which the subject object 210 was orientated.

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(FIGURE 1)